



Registered in	INDIAN	CAN.	CHINA
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Love Duel Girl Dies

LAWYERS CLAIM MRS. BAILEY WAS SHOT BY A MAN

The New London police say the men are the same that recently robbed stores of \$2,500 in New Haven, committed several similar robberies in Springfield, Mass., and perpetrated recent safe robberies at Ivoryton and Jersey.

While the men were being lined up at the police station Stanley pulled gun and attempted to fire at Police man Hammen, but was felled with club.

Mr. Dooley on "EUGENICS" By F. P. DUNNE Reprinted by special arrangement from *Harper's Magazine* for October **See Next Sunday's American**

By F. P. DUNNE
Reprinted by special arrangement from *Henri's Magazine* for October.

*"The Busiest Corner on
Houston's Busiest Street"*

**MAGRANE
HOUSTON**

CO.

**Arro
Sale**

**Every
Friday**

One of the four best Arrow Sales of the year comes tomorrow.

It will be a clean-up of odd and broken lots remaining from the stock reduction sale held on last Monday and Tuesday.

Former mark-downs will look high compared with the prices in this final clean-up tomorrow.

Misses' \$15.00 Suits, including
 jacket and skirt, **\$8.95**
Misses' \$12.50
Serge Dresses, including
 hat, reduced to **\$7.50**
 Dresses, black and white, with
 tulle, lace, and wide
 stripes, **\$3.50**
Women's \$12.50
 Skirts, broken lots of Separate
 wool mix-
 ture, and
 rayon, **1.50**
Women's \$10.00 House Dresses,
 in perfect a condition,
 reduced to **39c**
Women's \$3.95
 Dresses, in
 perfect condition, **1.00**
\$1.00 White Undershirts, 59c
\$1.00 Combed Towels, small lot,
 59c
\$1.00 Green Nightgown, 59c
\$2.00 Petticoats of silk, 1.00
\$2.25 Satin Petticoats, 1.00
\$1.25 Tucked Nails, 45c
Men's and boys' wear

Ladies' 17c Linen Initial Handkerchiefs, broken lots, each **7c**
Up to 50c Neckwear, muslin and net collars, centers in place of organza **19c**
50c Crepe de Chine Ties, good variety of colors **35c**
Women's \$1.15 Armoire (3) **69c**

Washable Moana Gloves, tulle and lace.....	65c
Women's \$1.25 P. K. Sewn Gloves, Imported lamb, Paris point embroidery, color, tan and mole.....	79c
Women's 50c Cham moisette Gloves, broken stripes.....	39c
Women's 25c Cot- ton with black.....	19c

Children's 19c Cotton Hose, fine ribbed, all sizes. 15c

Children's 50c Union
Key Underwear, fall
style, long
Women's 50c Union
Suits, low neck, knee
length, slacks & sand & only
Children's \$5.00 Soiled White
Corduroy Coats,
low belt and human
slacks, sizes 1 to 3 years,
Children's \$1.00 Gingham
Bloomer Dresses, in
two styles, sizes 2 to 4
years
Children's \$1.95 Soiled White
Waist Dresses, lace,
2 to 4 years

Children's Soiled Cotton Underwear. Among this lot are

Girls' \$2.80 One-piece Dresses, in 10 colors, sizes 10-14, \$2.80	1.50
Girls' \$3.50 Separates, Skirts, Blouses, collared and gingham, sizes 10-14, \$3.50	1.75
\$1.50 54-Inch Black Fins Wool Serge, a limited quantity, reduced	85c
\$2.00 54-Inch New Blue Cord and Bedford Cord	1.00
\$2.00 40-Inch Silk Charmeuse, odd pieces, \$2.00	1.00
\$1.00 35-Inch Black Silk Messaline.....	65c

19c Silk Neck Cords, with tassel, white, black, fuchsia blue and silver 180c, ea.

10c Salter's Dental Floss, 12-yard spools, each

\$2.25 Tapestry Couch Covers, four styles, 60 inches wide, oriental designs, roman stripes, etc.

\$1.50 Ecru Scrim antique imitation effects, 180c, ea.

10c Curtains, 1.00

white and Arab fillet insertion and novelty edge; 10 styles reduced to, pair... **1.00**

ADVERTISE YOUR WANTS IN THE BOSTON AMERICAN

JOYCE BROS. & CO.

CARMAN DECEASE TO MARSHAL EVERY AID TO SMASH TESTIMONY OF COLORED MAID

STATE RESTS CASE

TRAMPS STORY

Continued from First Page.

was Benjamin W. Cheeman a witness, who took a statement from the negro maid at the coroner's inquest and directly opposite to the testimony she gave yesterday.

NEAR-RIOT BY CROWD IN WILD STRUGGLE TO GET INTO COURT

The crowd about the courtroom today was even greater than that of yesterday. Among the spectators were many fashionably dressed women, who came here in their motor cars, attracted by the report that Mrs. Carman would take the stand in her own defense during the day.

There was a near-riot when the courtroom doors were opened. The crowd, men and women, made a rush, and dresses were torn and hats wrecked in the jam. The women predominated for the first time, and only a few men succeeded in getting places. When the crowd got within it found the best places occupied by friends of the sheriff and other officials, who had obtained a dispensation through the office of the county clerk. This caused considerable grumbling, but the bailiffs soon checked the disorder.

Frank Conklin, father of Mrs. Carman, was the first of her relatives to reach the courtroom. He conferred with Attorney Levy of the defense. Mrs. Carman's mother was the next to appear. She was accompanied by Elizabeth Carman, the young daughter of the defendant.

When Mrs. Carman entered she kissed her mother and daughter affectionately. She gave a similar salute to her father, and for the first time since the trial started she kissed her husband. She was apparently in high spirits and chatted animatedly with members of the family circle that gathered about her as closely as possible.

Elizabeth took seat between her mother and father. When Judge Kelly opened the trial the proceedings with the tramp, Frank Farrell, to give evidence for the prosecution. He was questioned as to his movements on the night of the murder. Attorney Graham made the witness admit several times that he had made mistakes in his direct examination. The witness was very much agitated by the questions of the counsel, and his replies were direct contradictions of his testimony yesterday.

FARRELL, THE TRAMP, AGAIN ON GRILL IN CARMAN TRIAL

The cross-examination of Frank Farrell, the tramp who was on the stand when yesterday's session ended, was continued as soon as the court called. It was as follows:

Q—How did you describe the woman that you say fired the shot on the night of June 27? A—About five feet eight or nine inches tall. About five feet eight or nine inches tall. About five feet eight or nine inches tall. About five feet eight or nine inches tall.

Q—Will you say that you did not see her? A—No, I did not see her. Q—Did you see her? A—No, I did not see her. Q—Did you see her? A—No, I did not see her. Q—Did you see her? A—No, I did not see her.

AFTER A "HAND-OUT"

Q—What made you stop at the Carman residence? A—I wanted a "hand-out." Q—How far away from the front door was the house? A—I was in the back yard. Q—Did you see the house? A—I did not see the house. Q—Did you see the house? A—I did not see the house.

CELIA COLEMAN'S STORY TOLD ON WITNESS STAND

Celia Coleman, who was the star witness of yesterday's session, gave her testimony in a loud, steady voice. Mrs. Carman watched her attentively. After she had answered the preliminary questions her examination proceeded thus:

Q—Were you a servant in the home of Mr. Carman on June 27? A—Yes. Q—Where was you at home that night? A—I was in the back yard. Q—Did you see the house? A—I did not see the house. Q—Did you see the house? A—I did not see the house.

LADIES!! MANUFACTURERS' Sample Suits Coats and Dresses

Just received from some of the best makers in New York city a special lot of winter suits and dresses. All the latest styles. Regular retail prices would be \$20 and \$30. We offer them special at

\$16.50

Full set of teeth made for \$5.00. Full set of teeth made for \$5.00. Full set of teeth made for \$5.00.

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MRS. CARMAN CONSULTS COUNSEL



Sketch showing Mrs. Florence Carman conferring in Minola court room with Attorney Graham before he began his examination of Celia Coleman, former maid, who strongly accused her mistress.

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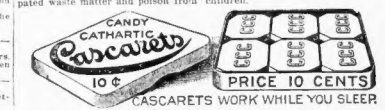
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REGULATE YOUR BOWELS AND STOP HEADACHES, COLDS, SOUR STOMACH

Cascarets make you feel buoyant; they immediately cleanse and sweeten the system, remove the sour, undigested and fermenting food and gas pains; take the excess bile from the liver and carry off the constipated waste matter and poison from the bowels. A Cascaret tonight straightens you out by morning—A recent box from any druggist keeps your stomach regulated, head clear and liver and bowels in fine condition for months. Don't forget the children.



CASCARETS WORK WHILE YOU SLEEP

Buy Dependable Furniture ON EASY TERMS
From a House that Backs Up Every Sale Made
This great house gives its guarantee with every sale—a pledge of your satisfaction. It means that you must be perfectly pleased with every article you buy here.

Remember our system of easy payments. A small deposit furnishes your home immediately, and you may pay the balance in convenient weekly or monthly amounts.

A Sample of Dining-Room Values
FUMED OAK BUFFET (shown) **\$20.00**

A fine oak piece, splendidly fumed. 45 inches long, with mirror 36 inches long. Ample drawer room and large closets. A regular \$28.00 value.

A TABLE THAT WILL MATCH, \$15
Built of solid oak—fumed—45 inches in diameter. \$20.00 value.

DINING CHAIRS OF MERIT, \$3.00
Heavy frames, seat leathers of Spanish leather. \$3.50 value.

Talking Machine Department
DAILY CONCERTS
Complete Line of Victor and Columbia Goods
EASIEST TERMS

McDougal Kitchen Cabinet
These Greatest of Labor Savers on Special Terms
\$1.00 DOWN \$1.00 PER WEEK

A. McArthur Co.
111-117 Washington St.
at Adams Square

Buffets Exactly like illustration: quart. oak; 54-inch top; spacious lockers and drawers. Regular price \$49.00. Our Friday and Saturday price... **32.50**

Your Credit Is Good Here

OSGOOD
When in Doubt Buy OSGOOD
744-750 WASHINGTON ST.
THE C. E. OSGOOD CO.

HAYNER & WHISKEY

BOTTLED-IN-BOND FULL 100% PROOF

City Patrons ATTENTION!

Hayner Private Stock Bottled-in-Bond Whiskey FULL QUART 80% PROOF

Delivered to any part of the city

It's really fine—a Bottled-in-Bond Whiskey

Key of exceptional quality—selected with the U. S. Government's Green Stamp over the cork—your assurance it is fully aged, full 100% proof and full measure.

Call at any of the stores mentioned—get your bottles of this good old whiskey—take it home—try it—you will find it as you can buy elsewhere at \$2.25 to \$3.00 and more than pleasing in every way.

Phone orders promptly filled

THE HAYNER DISTILLING CO.—Desk 94
51-53 High Street (South Station), BOSTON, MASS.

Also on sale at all of the following stores:

Swallow & Fols Co. 13 City Square, Charleston.
E. E. GRAY CO. Corner Haverhill and Blandford, 110 Canal St., North Station.
THREE STORES 1205 Tremont St., Roxbury, Cr.

J. J. McNamee & Co. 243 D St., South Boston.
John Imbush & Co. 207 Bay State St., Jamaica Plain.
John T. Powers Jr. & Co. 705 Tremont St., Cr. Springfield St.

Price Bros. 145 Main Ave., Back Bay.

HARVARD vs. PENN STATE

CHICAGO MEN TO TAKE CUBS FROM TAFT

[illegible]

Army and Navy Game for Franklin Field

PHILADELPHIA, Oct. 22 — Final arrangements for this year's Army-Navy football game have been completed and are expected to be held

The Army and Navy representatives agreed to accept 11,500 seats each, the same number offered to them by Persells in a past year, when the game was played in New York.

Each party, according to the agreement, will be at liberty to dispose of seats in an assembly as it sees fit, provided that in case they are sold, the net proceeds shall be divided between the Army and Navy relief societies.

general committee," supervision committee and the president of the two academic associations, Mr. White.

Penn-Dartmouth Run Hard to Decide

HANOVER, N. H., Oct. 22.—With but one veteran on the team, the Penn-Dartmouth football squad will meet the Big and date Harvard from the University of Pennsylvania at Harvard, before the conference season.

The race is a run over a 100-mile course, and the teams are practically unknown quantities. Except for their captains, both composed of new men.

Paul Pilgrim Quits Cinder Path for Pen

NEW YORK, Oct. 22.—Paul Pilgrim has resigned as captain of the New York Athletic Club's 100-mile team in order to devote more of his time to

publication, to which Ingram has just been elected assistant editor. Corbett, a member of the club's board of governors, is now acting captain, and it is believed that his selection will eventually be made permanent.

Match With Eames
NEW YORK, Oct. 22.—Alfred De Oro, the world's champion three-cushion billiard player, will defend his title next week in this city against George Eames. De Oro is practicing daily for the match, and in case he defeats Eames he will become the permanent possessor of the Lambert trophy, emblematic of the three-cushion title.

Remedy Free

Free
Sample of Pyramid Pile Remedy
mailed free for trial gives quick relief,
stops itching, bleeding or protruding
piles, hemorrhoids and all rectal
troubles, in the privacy of your own
home. 50¢ a box at all druggists. Free
sample for trial with booklet mailed
free in plain wrapper.

FREE SAMPLE COUPON

PYRAMID DRUG COMPANY,
 64 Pyramid Bldg., Marshall, Mich.
 Kindly send me a Free sample of
 Pyramid File Remedy, in plain wrapper.
 Name

City..... State.....

Ask Your Dealer For

DOTWOOD
The Latest Style in Fancy

Madras Collars, it's an

**CA RED
MAN**

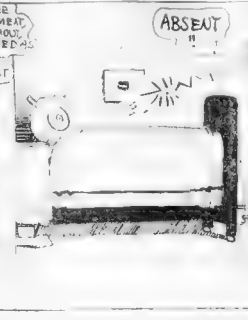
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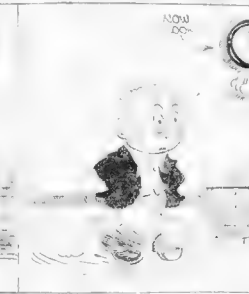
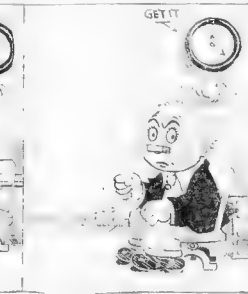
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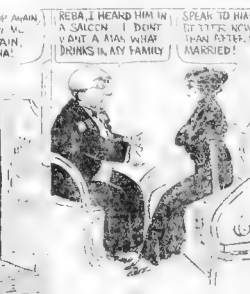
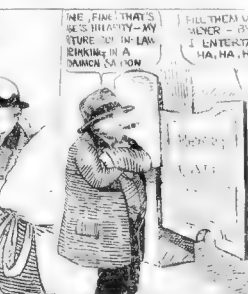
THE DINGBAT FAMILY



JERRY ON THE JOB



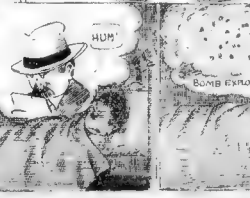
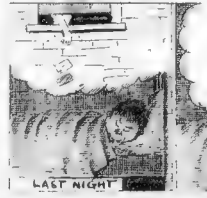
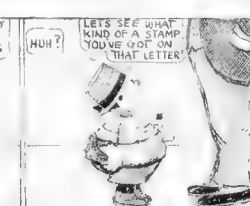
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POLLY AND HER PALS



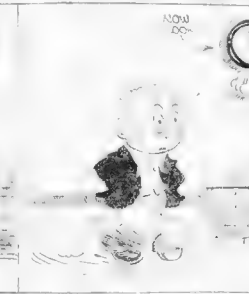
US BOYS



That Constitutional Was Quite Unconstitutional



Girls Are Funny Things, Aren't They? Sure They Are



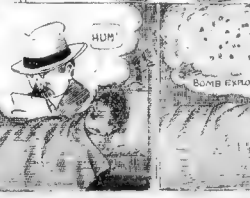
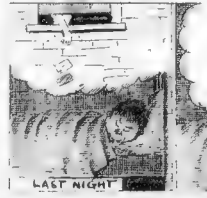
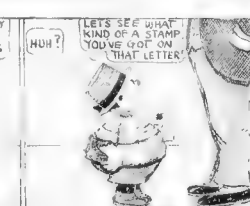
Col. R. E. Morse Has Able by the Collar



Pa Doesn't Mind Giving Away a Cigar—to the Right Person



Skinny's Dream Was a Lot Worse Than the Reality. Don't You Think Most Dreams Are?



GOAT GRABBER

WELL KNOWN SAYINGS ILLUSTRATED BY S. S.

OH HUBBY DEAR, I SAW THE SKELETS SET OF PUNS TO DAY PARLUNG.

Answer to Yesterday's WHY IS BLIND MAN'S BUFF LIKE SYMPATHY? BECAUSE IT IS A FELLOW FEELING FOR ANOTHER. WHOOP 'ER UP BOYS!

Were not thru yet! FROM FRIDA WAAS U. S. A. WHY ARE SLOW STREET CARS NOT LIKE VERY MANY GROCERS? ANSWER TO-MORROW

HERE'S WHERE WE START OUR GREAT SERIAL STORY

THE GOAT GRABBER.

BY SAMMY PETRY

CHAPTER I CONTINUED TO-MORROW

THE AMERICAN'S MAGAZINE PAGE

CHAPTER XXI

[illegible]

PHILADELPHIA

1. *Journal of the American Medical Association*, 1997; 277: 1033-1038.

The removal of embarrassing hair is becoming more prevalent every day. Thousands of women regard El Razo, the liquid hair remover, necessary a toilet article as cold cream.

El Razo acts instantly and does not irritate the skin. The growth of hair will return in a moment or two, leaving the skin soft and velvety. Because of the soothing antiseptic properties, you need have no more hesitation in using it for the most sensitive areas of the face powder. El Razo is a standard toilet article, used by women in all walks of life—old and young, in society and in the stage.

It is the only hair remover that keeps you on your side. Prove for yourself it will do everything claimed. Your money back if you are not entirely pleased. Can be had at all leading druggists and department stores or direct from Pilsbury Mfg. Co., 37 East 28th St., New York City.

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Any of these coupons consecutively dated and 60c postage paid to cover
200 Transfer Deadlines, a New Year's Anniversary Wino
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Was Ordered.
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Brynar, Connecticut 06111. Begin today.

Thursday, Oct. 22nd, 1914

there's an easy way, why not choose it?"

Anty Drudge—"It would be more to the point if you'd do more and talk less. Here's Maria now, hard at the washing and doing it wrong. Suppose you go out and buy her the easy way—It's a cake of *Fair-Naptha Soap*."

Follow the directions on the Red and Green Wrapper.

Better buy Fels-Naptha by the carton or box.

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SEE MAX KEEZER.
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Women's Specialties.
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CARS TO RENT.
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Furnished Rooms—Winthrop.
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Board and Rooms.
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Business Opportunities.
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DEATHS.
ANDERSON, in Boston, Oct. 20, at
his home, 100 Washington St., Boston.
BROWN, in Boston, Oct. 20, at
his home, 100 Washington St., Boston.
BROWN, in Boston, Oct. 20, at
his home, 100 Washington St., Boston.
BROWN, in Boston, Oct. 20, at
his home, 100 Washington St., Boston.

BOSTON AMERICAN
33 AND 32 SUMNER ST., BOSTON, OCT. 22, 1914.

Lest We Forget

Mr. McCall's Memory Is Poor

A candidate for public office should have a good memory. It would often keep him from throwing stones when he is in a glass house.

Samuel W. McCall, the Republican candidate for Governor, is forgetful. The glass of his own house is tumbling in on him, broken by the stones which he himself threw at Governor Walsh in a moment when he forgot his own location.

Mr. McCall denounces Governor Walsh for permitting the increase of the salary of his own private secretary. Mr. McCall thinks that this is very unbecoming. But Mr. McCall has a public record which he ought to consult before he makes any new criticisms of either of his opponents—Governor Walsh or Mr. Walker.

If he reviewed his own record before making this attack upon Governor Walsh he would have discovered that while in Congress he voted not only to raise the salary of Congressmen BUT TO RAISE HIS OWN SALARY AS CONGRESSMAN. The history of Congressional salary raising is inglorious. Some years ago Congressmen raising their own salaries were so soundly punished by their constituents at the next election that they immediately repealed the vote which raised their salary. After a few years they ventured to try it again.

The reasons for increasing the salary of the Governor's private secretary are obvious to those who know the nature of the work which our Governor's secretary is called upon to do. A man with enough character and ability to fill this position properly cannot be obtained for the salary which the Commonwealth was paying that class. Governor Walsh's Democratic predecessor, Governor Foss, is a man of large means; so is the preceding Democratic Governor, Douglas. It has been the habit of the Republican party to nominate for Governor men of wealth, and all the Governors in recent years have been obliged to supplement the salary which the Commonwealth pays to the Governor's secretary out of their own private purses.

Governor Walsh, however, is not a wealthy man and he cannot afford this expense nor is it right that he should be asked to do so. The Commonwealth should pay for the service it gets. The service of the Governor's secretary is rendered exclusively to the Commonwealth, and the people of the State should not be under obligation to any private person for public service regularly exacted.

On the other hand, it happens that a bill was prepared providing for an increase in the Governor's salary. It is notorious that the Governor's salary is not adequate for the responsibilities of his office. It is one-fifth the size of the president of a railroad, which is merely a creature of the State. BUT THE GOVERNOR REFUSED TO SANCTION THIS INCREASE DURING HIS TERM OF OFFICE.

Mr. McCall was moved by no such sense of delicacy when he voted to increase his own salary as Congressman.

Lest we forget. Lest we forget.

Inspecting Those That Handle Food

If It Can Be Done by the United States Government at Panama, Why Not Elsewhere?

Copyright, 1914, by the Star Company

The new Panama Canal took in more than ninety-one thousand dollars in August. Ships paid that much to go through.

It isn't enough, of course, to pay expenses and interest on the cost. But the war has hurt shipping. The returns will be plentiful later.

More interesting than the mere making of money is the information coming from Panama concerning the plans and regulations for keeping the people healthy and protecting them against carelessness.

For instance, read the following interesting statement: The canal government has set an example to hotelkeepers generally to protect the health of the patrons of the government hotels on the isthmus by requiring all employees handling food to submit to medical examination. A recent examination disclosed the presence of one typhoid carrier in a "silver mess," who was promptly deported. The sanitary condition of the personnel was found to be highly satisfactory. Periodical examinations will be made to determine the presence of tuberculosis and other diseases.

It is good that the hotels owned by the government in the Panama regions protect "guests" against typhoid and other contamination. A good idea for the employees as well as the guests. Why would not that be a good idea OUTSIDE of the Panama regions?

Why not exercise, through government if necessary, the supervision that would prevent individuals afflicted with typhoid spreading the disease through kitchens, and others afflicted with worse diseases from spreading them broadcast?

The people may learn more than they expected to learn from government ownership.

And gradually the truth may enter into the minds of men that the combined intelligence of the people is superior to that of the individual, and that government is destined to do many things well.

A Good Peace Idea

The Power of Suggestion Is Great, as Mr. Reed Says.

Copyright, 1914, by Star Company

Below we print with pleasure this letter and its very intelligent suggestion that it offers to the public:

Dear Sir—You know the power of suggestion. It just occurred to me that in furthering the World Peace Movement it would be a good idea if every American business organization would make a practice of concluding all its letters, both to foreign and domestic clients, with the words, "Yours for World Peace," or "Yours for Universal Disarmament" instead of the conventional ending, "The undersigned is very far reaching."

We could also affix "Universal Peace" stamps to all our letters similar to the Red Cross stamps used at Christmas time, using the proceeds to further the movement.

Maybe you would care to make some such suggestion editorially. Yours for World Peace. L. C. M. REED.

Enemy's Offensive Developing Against Bungalow

By T. E. POWERS

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TOM POWERS' HUMOROUS CARTOONS ARE A REGULAR FEATURE OF THE SUNDAY AMERICAN.

World Needs Hope and Courage in This Crisis

Talk of Poverty and Failure in These Troubled Days Is Criminal, Because It Creates Fear, Destroys Confidence and Dissipates Energy

By ELLA WHEELER WILCOX

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THERE is a wonderful sentence in the Bible which is seldom quoted in the pulpit, but has been much used of late years by the advanced thinkers along metaphysical lines. Here it is: "MY WORDS ARE SPIRIT AND THEY ARE TRUTH; AND THEY SHALL NOT RETURN TO ME VOID; BUT SHALL ACCOMPLISH THAT WHEREINTO THEY WERE SENT."

Commit that sentence to memory and understand its full import, and then repeat it many times a day. If you fully comprehend the meaning of the message, you will be careful what words you send out "to accomplish that whereinto they were sent." EVERY WORD YOU utter is a PEBBLE THROWN INTO THE GREAT WATERS OF

LIFE, AND IT IS MAKING ITS VIBRATIONS WHICH WILL REACH DISTANT SHORES IN TIME. In these strenuous and troubled days of world-shaking events it is becoming the habit of many people to talk of poverty and failure and trials and hardships, as they forecast the future of individuals as well as of countries.

Such talk is worse than useless. It is criminal, because it is creating fear and destroying confidence and dissipating energy.

The world needs hope, courage and faith at this juncture, and the man who projects these optimistic thoughts into the ether by his thoughts and his words will be helped and sustained by the invisible helpers who are overruling

our planet and assisting it to evolve a higher type of humanity. In the turmoil of life make a little centre of peace in your own heart. Sit alone a few moments or an hour every day with only thoughts of peace and love and faith in your mind.

Say over these words silently: PEACE, LOVE, FAITH, PROSPERITY, HEALTH, USEFULNESS, HAPPINESS.

When you are riding in public conveyances or walking on the street say these words; after you have read the distressing news of wars, say them. Remember this: IF EVERY HUMAN BEING ON EARTH SAID THESE WORDS WITH REVERENCE AND LONGED TO HAVE THEM DEMONSTRATED IN LIFE ALL WAR WOULD CEASE.

Therefore do your little part. Make a small world of your own, and fill that world with optimistic thoughts and hopeful and happy and helpful words.

If you are not well, if case has taken on a troublesome prefix of "dis," cut off the prefix and think of "ease"; recollect that health is your DIVINE RIGHT. The Great Source contains only health and ease and optimism and love and happiness. Send forth your words and assert what is your inheritance.

No matter if Pandora's box seems opened anew about you, assert your rightful claim. And your words shall not be void, but shall return to you and accomplish that whereinto they were sent.

MYSTERIES OF SCIENCE AND NATURE

Some Curious Facts in the Law of Gravitation Have Made the Moon the Mistress of the Seas—the Reasons

By GARRETT P. SERVISS

"An spokesman for a group of about twenty, I am prompted to ask you to discuss in an article the why and wherefore of the influence of the moon on the tides of the ocean."—R. K. W.

THERE are many mysteries that science has not solved, and among the greatest of them is the nature of gravitation. Newton discovered certain "laws" which show how gravitation acts, but he failed to find out what gravitation is, and on that point we are virtually as ignorant as he was. For practical purposes we may define gravitation as that force, inherent in all matter, by virtue of which every material body, no matter how large or how small, seems to attract, or draw toward itself, every other material body, and to be attracted, in like manner, by every other body. I say "seem" to attract, because there is reason for thinking that the force may be more of the nature of a push than a pull.

This is equally true whether the bodies in question are microscopic particles or gigantic suns and worlds. The intensity of the force depends upon the mass or the quantity of matter contained in the bodies concerned. A body with ten times the mass of another has ten times as much gravitative force as the other. This appears quite evident, and in accordance with what one would expect, just as an elephant is stronger than a horse, but the next "law" affecting gravitation is not self-evident, except to those who have studied it mathematically, although it is the cause of the moon's influence in producing the tides.

Amount of Variation Is Measured by Distance

This law says that not only does the force of gravitation vary with the distance between the attracting bodies, becoming greater as they are nearer and less as they are farther apart, but that the amount of variation is measured by the square of the increase or decrease of distance. It is the famous "law of inverse squares," which appears to be one of nature's fundamental principles. To give a single example: If you double the distance between two bodies you diminish the force of attraction between them four times (four being the square of two), and if you halve the distance you increase the attraction four times.

One other, still more curious, law or fact about gravitation remains to be considered before we can understand the way in which the moon makes tides in the earth's oceans. It is this: In the case of spherical bodies, like the earth and the moon, the whole force of attraction tends toward the central point of matter, and the two attract, and are attracted by one another just as if their entire masses were concentrated at their respective centres. In other words, the moon pulls the earth, as a whole, exactly as if it had a string attached, not to the surface, but to the central point of the earth.

Now, keeping in mind all these statements concerning the way that gravitation acts, let us consider the effects of the moon's attraction upon the earth. The dis-

tance between their centre is, in round numbers, 240,000 miles. But the earth being 8,000 miles in diameter, its surface, on the side that happens at any time to be toward the moon, is 4,000 miles nearer the moon than its centre is. Consequently the force of the moon's attraction is greater at the surface than at the centre in the inverse proportion of the square of 240,000 to the square of 236,000, or, which is the same thing, the square of 60 to the square of 59. In other words, the moon pulls about 3 1/2 per cent. more strongly at a point on the earth's surface directly under it than on the earth's centre.

The Greater Attraction Naturally Draws the Liquid

If then there exists on the earth's surface, under the moon, a mass of liquid, such as the ocean, the particles of the mass of liquid, move freely among one another instead of a solid, it is evident that this liquid will tend to be drawn away from the solid earth by virtue of the greater attraction to which it is subject, and in this tendency lies the origin of the tides.

I call it a "tendency," since the water is not actually drawn away from the earth, because the lifting force of the moon upon it is less than one eightieth of its weight, due to the earth's attraction. Nevertheless the slight diminution of weight, that the water experiences sufficient to cause the surface of the ocean to swell up on the side toward the moon. Theoretically, the water is drawn toward the line joining the centres of the earth and the moon from all parts of the moonward hemisphere of the earth, but since the oceans do not cover the whole of the earth, and are of irregular outline and of varying depths, and since, moreover, the revolution of the earth on its axis is continually carrying the centre of the moonward hemisphere out of line, the crest of the tidal wave is never directly under the moon, and the height of the tide, and the direction in which it causes currents to flow, depend upon many local circumstances, so that it is a very complicated problem to effect the tide for any particular spot.

Change of Position of the Moon Causes Two Tides

But there are two tides per day, owing to the fact that the same differential effect of the moon's attraction is felt, in a reverse way, on the side of the earth that is turned from the moon. On that side the ocean water is farther from the moon than the centre of the earth is. In consequence the earth is drawn away from the water, and the latter is raised into a tide analogous to the one on the other side.

The sun also raises tides, but those, owing to the great relative distance of the sun, are only about two-fifths as high as the lunar tides. At new and full moon the two tides are combined, giving the "spring tide," and at first and last quarter of the moon the two tides act against one another, producing the "neap tide."

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